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INFORMATION DISCLOSURE STATEMENT Patent Application Docket No. UF-378C1 Serial No. 10/678,506

May 24, 2004

Margaret H. Efron, Patent Attorney

Margaret H. Eff

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Art Unit

1743

Applicants

Richard Melker, Ronald Hayes, Ka-Wang Kevin Wang, Donn Dennis

Serial No.

10/678,506

Filed

October 2, 2003

Conf. No.

1941

For

Novel Application of Nanotechnology and Sensor Technologies for

Ex-vitro Diagnostics

Mail Stop Amendment Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. §§1.56, 1.97 AND 1.98

Sir:

In accordance with 37 C.F.R. §1.56, the references listed on the attached form PTO/SB/08 are being brought to the attention of the Examiner for consideration in connection with the examination of the above-identified patent application. Copies of the cited documents are enclosed.

The applicants respectfully assert that the substantive provisions of 37 C.F.R. §§1.97 and 1.98 are met by the foregoing statement.

Respectfully submitted,

Margaret H. Efron

Patent Attorney

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MHE/ue

Attachments: Form PTO/SB/08

References listed thereon



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U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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Complete if Known Substitute for form 1449A/PTO **Application Number** 10/678,506 INFORMATION DISCLOSURE **Filing Date** October 2, 2003 STATEMENT BY APPLICANT First Named Inventor Richard J. Melker **Art Unit** 1743 (use as many sheets as necessary) **Examiner Name** Sheet **Attorney Docket Number** 6 UF-378C1

	U.S. PATENT DOCUMENTS							
Examiner Initials*	Cite No. 1	Document Number Number - Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear			
	U1	US-3,567,029	03-02-1971	Quame	All			
	U2	US-3,608,546	09-28-1971	Shinn	All			
	U3	US-3,877,291	4-15-1975	Hoppesch <i>et al.</i>	All			
	U4	US-3,955,926	5-11-1976	Fischer	All			
	U5	US-4,202,352	05-13-1980	Osborn	All			
	U6	US-4,312,228	1-26-1982	Wohltjen	All			
	U7	US-4,334,540	6-15-1982	Preti <i>et al.</i>	All			
	U8	US-4,361,026	11-30-1982	Muller et al.	All			
	U9	US-4,349,626	9-14-1982	Labows <i>et al.</i>	All			
	U10	US-4,399,686	8-23-1983	Kindlund et al.	All			
	U11	US-4,534,360	8-13-1985	Williams	All			
	U12	US-4,734,777	3-29-1988	Okino et al.	All			
	U13	US-4,772,559	9-20-1998	Preti et al.	All			

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Examiner Initials*	Cite No. 1	Off	Foreign Patent Document Kind Code ⁵ Office ³ Number ⁴ (if known)		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
	F1	DE	19607646 (abstract in English)	A1	Muehlenberg <i>et al.</i>	09-11-1997	All	
	F2	wo	98/57145		Quadrivium, L.L.C.	12-17-1998	All	
	F3	wo	00/79243	A1	Cyrano Sciences, INC.	12-28-2000	All	

Examiner	Date	
Signature	Considered	

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Substitute for form 1449A/PTO				Con	Complete if Known		
				Application Number	10/678,506		
INFORMA				Filing Date	October 2, 2003		
STATEME	INT BY A	PPLICAN'	T	First Named Inventor	Richard J. Melker		
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	U.S. PATENT DOCUMENTS							
Examiner Cite No. 1		Document Number Number - Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear			
	U14	US-4,895,017	1-23-1990	Pyke et al.	All			
	U15	US-4,938,928	7-03-1990	Koda <i>et al.</i>	All			
	U16	US-4,992,244	2-12-1991	Grate .	All			
	. U17	US-5,034,192	7-23-1991	Wrighton et al.	All			
	. U18	US-5,042,501	8-27-1991	Kenny et al.	All			
	U19	US-5,060,506	10-29-1991	Douglas	· All			
	U20	US-5,071,770	12-10-1991	Kolesar, Jr.	All			
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	U27	US-5,351,522	10-04-1994	Lura	All			
	U28	US-5,482,601	1-09-1996	Ohshima <i>et al.</i>	All			
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	U31	US-5,605,612	2-25-1997	Park <i>et al</i> .	All			
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	U33	US-5,756,879	5-26-1998	Yamagishi <i>et al</i> .	All			

Examiner	Date	
Signature	Considered	

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Substitute for form 1449A/PTO				Con	Complete if Known		
				Application Number	10/678,506		
	ATION DISC			Filing Date	October 2, 2003		
STATEM	ENT BY AP	PLICAN	IT	First Named Inventor	Richard J. Melker		
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Examiner Initials*	Cite No. 1	Document Number Number - Kind Code ² (if	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	U34	known) US-5,783,154	7-21-1998	Althainz <i>et al.</i>	All
	U35	US 5,783,449	7-21-1998	Kuznetsov	All
	U36	US-5,830,412	11-03-1998	Kimura et al.	All
	U37	US-5,861,254	1-19-1999	Schneider et al.	All
	U38	US-5,900,552	5-04-1999	Chu <i>et al.</i>	All.
	U39	US-5,918,257	6-29-1999	Mifsud et al.	All
	U40	US-5,945,069	8-31-1999	Buehler	All
	U41	US-5,950,630	9-14-1999	Portwood <i>et al.</i>	All
	U42	US-5,954,685	9-21-1999	Tierney	All
	U43	US-5,971,937	10-26-1999	Ekstrom	All
	U44	US-5,996,586	12-07-1999	Phillips	All
	U45	US-6,010,459	1-04-2000	Silkoff et al.	All
	U46	US-6,057,162	5-02-2000	Rounbehler et al.	All
	U47	US-6,063,243	5-16-2000	Zettl <i>et al</i> .	All
	U48	US-6,067,167	5-23-2000	Atkinson et al.	. All
	U49	US-6,085,576	7-11-2000	Sunshine et al.	All
	U50	US-6,136,801	10-24-2000	Kell	All
	U51	US-6,153,147	11-28-2000	Craig	All
	U52	US-6,190,858 B1	2-20-2001	Persaud <i>et al</i> .	All
	U53	US-6,203,814 B1	3-20-2001	Fisher et al.	All
	U54	US-6,221,026 B1	4-24-2001	Phillips	All

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Signature		Considered	

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Substitute for form 1449A/PTO			Соп	Complete if Known	
			Application Number	10/678,506	
			Filing Date	October 2, 2003	
STATEMENT BY APPLICANT			First Named Inventor	Richard J. Melker	
(use as many sheets as necessary)			Art Unit	1743	
			Examiner Name		
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			U.S. PATENT DO	OCUMENTS ,	
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•	U55	US-6,244,096	6-12-2001	Lewis et al.	All
	U56	US-6,248,078 B1	6-19-2001	Risby <i>et al.</i>	All
	U57	US-6,261,783 B1	7-17-2001	Jayasena <i>et al.</i>	All
	U58	US-6,303,316 B1	10-16-2001	Kiel et al.	All .
	U59	US-6,305,212	10-23-2001	Drzewiecki	All ·
	U60	US-6,312,390 B1	11-06-2001	Phillips	All
	U61	US-6,319,724	11-20-2001	Lewis et al.	All
	U62	US-6,363,772 B1	4-02-2002	Berry	All
	U63	US-6,387,329 B1	5-14-2002	Lewis et al.	All
	U64	US-6,399,302 B1	6-04-2002	Lannigan <i>et al</i> .	All
	U65	US-6,479,019 B1	11-12-2002	Goldstein <i>et al</i> .	All
	U66	US-6,495,824	12-17-2002	Atkinson	All
	U67	US 2001/0046674 A1	11-29-2001	Ellington	All
	U68	US 2002/0007249 A1	1-17-2002	Cranley et al.	All ·
	U69	US 2002/0068295	6-06-2002	Madou et al.	All
	U70	US 2002/0034757	3-21-2002	Cubicciotti	All

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	Substitute for form 1449B/PTO				Complete if Known		
		RMATION D	ISCI	OSLIRE	Application Number	10/678,506	
					Filing Date	October 2, 2003	
1	STATEMENT BY APPLICANT				First Named Inventor	Richard J. Melker	
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	(200 20)				Examiner Name		
	Sheet	5	of	6	Attorney Docket Number	UF-378C1	

NON PATENT LITERATURE DOCUMENTS					
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article, (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²		
	R1	BALLANTINE, DS. et al. "Surface Acoustic Wave Devices for Chemical Analysis," Anal. Chem. (1989), Volume 61, number 11, pages 704A-712A.			
	R2	BRODY, EN. et al. "Aptamers as Therapeutic and Diagnostic Agents," Reviews in Molecular Biotechnology (2000), Volume 74, pages 5-13.			
	R3	BRODY <i>et al.</i> "The use of Aptamers in Large Arrays for Molecular Diagnostics," <i>Molecular Diagnosis</i> (1999), Volume 4, number 4, pages 3811-388.			
	R4	CHANDIOK, S. et al. "Screening for Bacterial Vaginosis: A Novel Application of Artificial Nose Technology," Journal of Clinical Pathology (1997), Volume 50, pages 790-791.			
	R5	FANG, M. et al. "Detection of Organic Chemicals by SAW Sensor Array," Sensors and Actuators (1999), Volume B56, pages 155-157.			
	R6	FISCHER et al. "A man-portable chemical sniffer utilizing Novel Fluorescent polymers for detection of ultra-trace concentrations of explosives emanating from landmines," <i>Nomadics Inc.</i> (2000), PAGES 1-10.			
	R7	GANGA-ZANDZOU, P.S. et al. "A 13C-urea breath test in children with Helicobacter pylori infection: validity of the use of a mask to collect exhaled breath sample," Acta. Paediatr. (2001), Volume 90, pages 232-233.			
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	R10	HANSON, C.W. et al. "The use of a novel 'Electronic Nose' to diagnose the presence of intrapulmonary infection," <i>Anesthesiology</i> (1997), Volume 87, number 3A, abstract A269.			
	R11	LIEBICH et al. "Volatile Substances in Blood Serum: a Profile Analysis and Quantitative Determination," Journal of Chromatography (1977), Volume 142, pages 505-516.			

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Signature	Considered	

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	STATEMENT BY APPLICANT			Filing Date	October 2, 2003
SIA				First Named Inventor	Richard J. Melker
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Sheet	6	of	6	Attorney Docket Number	UF-378C1

	NON PATENT LITERATURE DOCUMENTS					
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS); title of the article, ∛(when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²			
	R12	MUELLER et al. "Experience in mass spectrometric identification in acute poisoning," Beitr. Diagn. Ther, Akuter. Intox., Vortr. Symp. 4th (1982), pages 126-134, ABSTRACT ONLY.				
	R13	PARRY, A.D. et al. "Leg Ulcer Odour Detection Identifies β-haemolytic Streptococcal Infection," Journal of Wound Care (1995), Volume 4, number 9, pages 404-406.				
	R14	PAVIOU and TURNER. "Sniffing out the truth: Clinical Diagnosis Using the Electronic Nose," Clin. Chem. Lab. Med. (2000), Volume 38, number 2, pages 99-112.				
	R15	PERRI, F. "Diagnosis of <i>Helicobacter pylori</i> infection: which is best? The urea breath test," <i>Dig. Liver. Dis.</i> (2000), Volume 32, Supp. 3, pages S196-198.	.,			
	R16	ROGERS et al. "Fiber-optic biosensors based on total internal-reflection fluorescence," American Chemical Society (1992), Ch. 13, pages 165-173.				
	R17	STOJANOVIC et al. "Aptamer –based Folding Fluorescent Sensor for Cocaine," J. Am. Chem. Soc. (2001), Volume 123, pages 4928-4931.				
· "	R18	TRACQUI, A. et al. "Systematic Toxicological Analysis Using HPLC/DAD," Journal of Forensic Sciences (1995), Volume 40, Number 2, pages 254-262.				
	R19	WOHLTJEN, H. et al. "Vapor Detection with Surface Acoustic Wave Microsensors," Chemical Sensors and Microinstrumentation (1989), pages 157-175.				
	R20					
	R21					
	R22					

Examiner	Date
Signature	Considered

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. Applicant's unique citation designation number (optional). Applicant is to place a check mark here if English language Translation is attached. his collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450. If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.